ACROPRINT®
Time for Business.™

DC7000 Data Collection Terminal

Hardware Manual

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FCC Warning:

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his or her own expense.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Compliance: (on hardware equipped with modem)

This equipment complies with Part 68 of FCC Rules and the requirements adopted by the ACTA. On the rear housing of this equipment is a label that contains, among other information, a product identifier in the format US:AAEQ##TXXXX. If requested this number must be provided to the telephone company.

This product uses USOC modular telephone jack: R-J11C

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant. See installation instructions for details.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAEQ##TXXX. The digits represented by ## are the REN without the decimal point (e.g., 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

If this equipment, 4G3MM00B1011, causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

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The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with this equipment, 4G3MM00B1011, for repair or warranty information please contact Acroprint Time Recorder Co. at 800-334-7190. If the equipment is causing harm to the telephone network, the telephone company may request you disconnect the equipment until the problem is resolved.

This equipment is of a type that is not intended to be repaired. For service contact Acroprint Time Recorder Co. at 800-334-7190.

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

If you have specially wired alarm equipment connected to the telephone line, ensure the installation of this 4G3MM00B1011 does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

Canada

This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numerique de la classe A est conforme a la norme NMB-003 Du Canada.

Lithium Battery Caution:

The circuit board on this terminal is populated with a lithium battery to protect data or programs stored in the Random Access Memory (RAM). Do not, under any circumstances, attempt to replace the lithium battery in the terminal. Failure to comply may invalidate your warranty. Battery replacement should be done by qualified personnel wearing the proper eye protection.

CAUTION: Danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instruction.

This product utilizes a battery that contains Perchlorate Material.
Perchlorate Material – special handling may apply, See
www.dtsc.ca.gov/hazardouswaste/perchlorate

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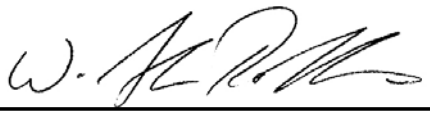
Declaration Of Conformity According To EMC Directive 89/336/EEC

We declare under our sole responsibility that the DC7000 magnetic stripe and/or barcode reading and/or data recording equipment to which this declaration relates are in conformity with the following standards: EN61000-6-1, EN55022-1998 with Amendment A1: 2000(CISPR-22). I, the undersigned, hereby declare that the equipment specified above conforms to the above directive and standards.

Raleigh, North Carolina USA



May 22, 2006 W. Glenn Robbins

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1. Introduction

Basic hardware and variations

The electronic hardware is a new, versatile platform designed for use with various applications. This manual describes, in detail, the electronic hardware aspects of the terminal you have purchased. The details concerning terminal firmware and host software are addressed in the manual, which comes with the software.

All terminals are equipped with:

1) 2 row x 20 character per row blue backlit display
2) 16-key full travel keypad
3) RS-232 serial port
4) wand port for optional barcode wand
5) two control lines for external relay control
   (door access and bell ringer are typical applications)
6) 25-pin parallel port

The terminal is offered with different hardware options as listed below:

Comm2:	RS485, MODEM, Ethernet, or wireless Ethernet
Barcode:	Internal Visible or Infrared Barcode Badge Reader
Proximity:	Proximity badge reader: 125kHz RFID or HID
Fingerprint:	Fingerprint Verification
Magnetic Stripe:	A Track 2 ABA magnetic badge reader is standard, but can be optioned out.

Note: The part number of your unit can be found on the serial number label on the back of the terminal.

General specifications

A. Enclosure: 8.7 in. (23 cm) wide x 6.1 in. (16 cm) tall x 2.3 in. (6 cm) deep. "Clamshell" construction of 0.125 in. (3 mm) thick Polycarbonate/ABS injection molded flame retardant plastic. Includes reversible mounting bracket and access door which protects I/O ports.

B. Multilayer main logic board with internal ground and power planes.

C. eZ80 Microprocessor.

D. Most common memory configuration is 1 Meg program Flash, 128K of Data Storage and 512K of RAM.

E. Real Time Clock with Lithium battery backup.

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F. Display: Backlit, Blue Background, 2 lines with 20 characters on each line.

G. Keypad: Full travel keys with elastomeric contact pad, 4 rows x 4 columns.

H. Serial Port: RS-232 using 6 position (4 contact) RJ-11 modular connection.

I. Serial Port: RS-485 (Local Area Network) using RJ-11 modular connection.

J. Parallel port: 25-pin DB connection.

K. Internal 56K Modem, licensed for use over public telephone lines.

L. Internal Multi-Frequency Piezo Electric Buzzer.

M. Internal Barcode Reader: Visible or Infrared Barcode reading through the slot.

N. Control lines: Two pins of the 6-pin circular DIN connector can be used with external relay box to control devices such as door locks and bells.

O. External Barcode port: 6-pin DIN connection for external Barcode Wand or Barcode Gun.

P. Power: Wall mount transformer, 9 Volts AC 1 amp standard or 3 amp for units with FIU, Modem or Wireless communications.

Q. Fingerprint: CCD Technology.

R. Proximity: 125kHz RFID Proximity Reader or HID Proximity Reader.

S. Ethernet: 10/100 baseT Ethernet Interface.

T. Wireless 10 baseT 802.11b wireless communications.

U. Flash program storage.

V. State of the Art FRAM Data Storage.

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2. Setup

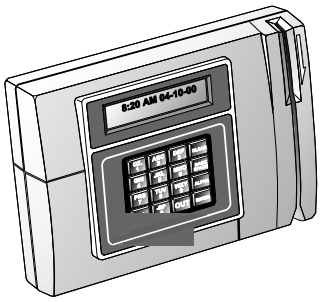
Operating Environment

The terminal can be installed in any normal office or controlled factory environment. However, do not use the terminal under the following conditions:

- extremely high or low temperature
  [operating temperature range: 0° to 50° C (32° to 122° F)]
  [storage temperature range: -20° to 60° C (-4° to 140° F)]
- extremely high or low humidity
  [operating humidity range : 10 to 90% RH non-condensing]
- areas of high dust concentration
- areas with chemical fume concentration
- areas with extreme vibration or when placed on an unstable or unlevel surface

Unpacking and Inspection

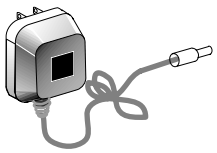
Open the shipping carton and carefully remove the contents. Inspect the terminal and accessories for damage. Report damage or shortages to the company from which the unit was purchased. Complete the registration card with all of the information.



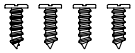
(1) Terminal

(1) Supervisor's Badge

(Included with Units that have Fingerprint Readers)



(1) Power Supply



(4) Mounting Screws

(1) Configuration Badge

(1) Manual

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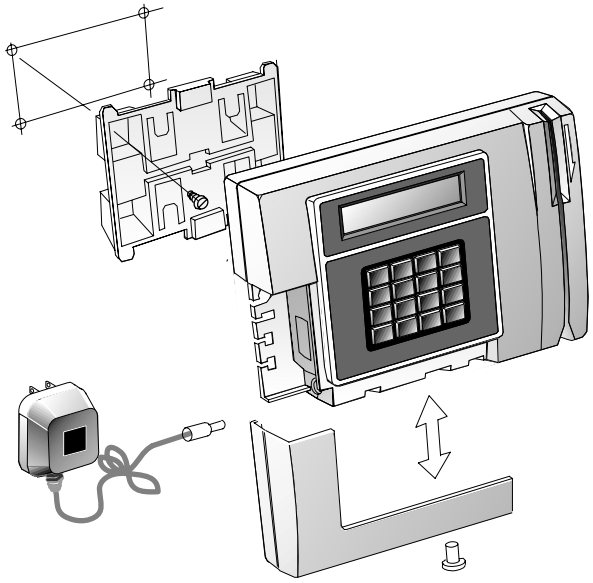
Mounting

Unscrew the access door. With the door off, the main unit can slide upward and be removed from the mounting bracket. The bracket can be used for wall mounting, or it can be reversed to tilt the unit on a desktop.



Power up

This product is intended to be supplied by a Listed Direct Plug-in Power Unit marked “Class 2” or “LPS” Rated 9v to 12v DC, 1000mA to 3000mA.

Plug in the power cord coming from the wall mount transformer into the terminal. To reattach the access door and secure the unit to the reversible bracket, screw on the door.

NOTE: Other connections are made in the same fashion. Notice the channels in the bracket available for cable routing. Also, the bracket has through-holes for further securing of cables using ties.

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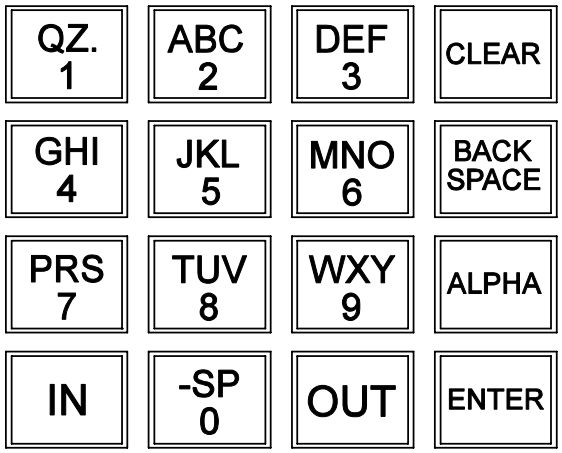
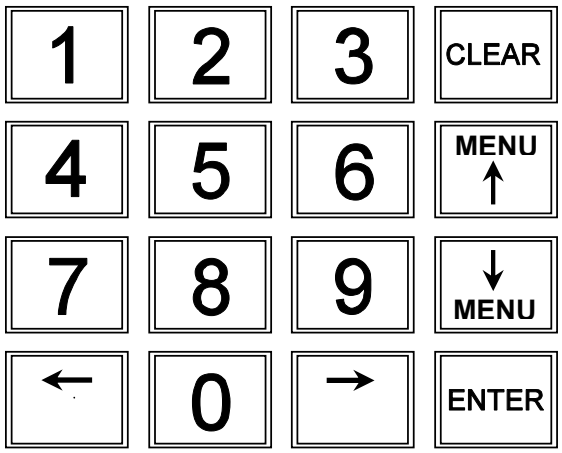
3. Operator Interface

Keypads

The standard terminal keypad has 16 keys for entering alphabetical and numeric data as illustrated below.



Standard Alpha-Numeric Keypad



Optional Numeric Keypad

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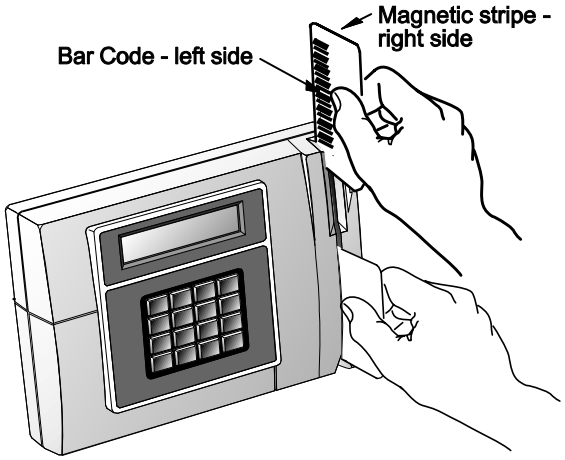
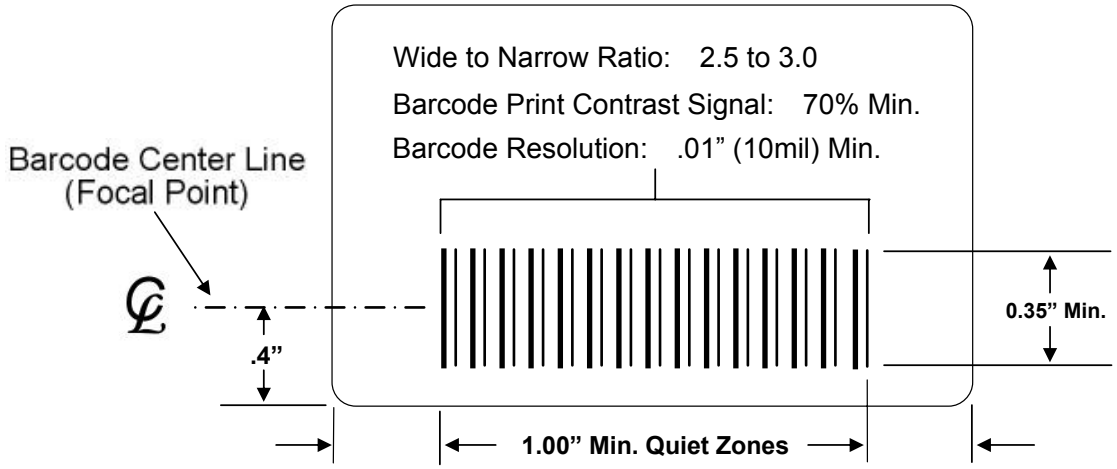
Card Readers

The DC7000 is available with (3) types of card readers.

a) **Magnetic stripe card reader**. The magnetic stripe on the card should be on the right side as shown in the illustration.



b) **Internal barcode reader.** Infrared or visible barcode readers are available. The card is swiped through in the same fashion, but the barcode should be on the left side of the card when swiped.


Wide to Narrow Ratio: 2.5 to 3.0
Barcode Print Contrast Signal: 70% Min.
Barcode Resolution: .01" (10mil) Min.
Barcode Center Line (Focal Point)
.4"
0.35" Min.
1.00" Min. Quiet Zones

NOTE: For through-the-slot reading, the barcode should be located on card as shown. Available barcode symbologies are 3 of 9 (Code 39) and 2 of 5 Interleaved.

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c) Proximity Readers

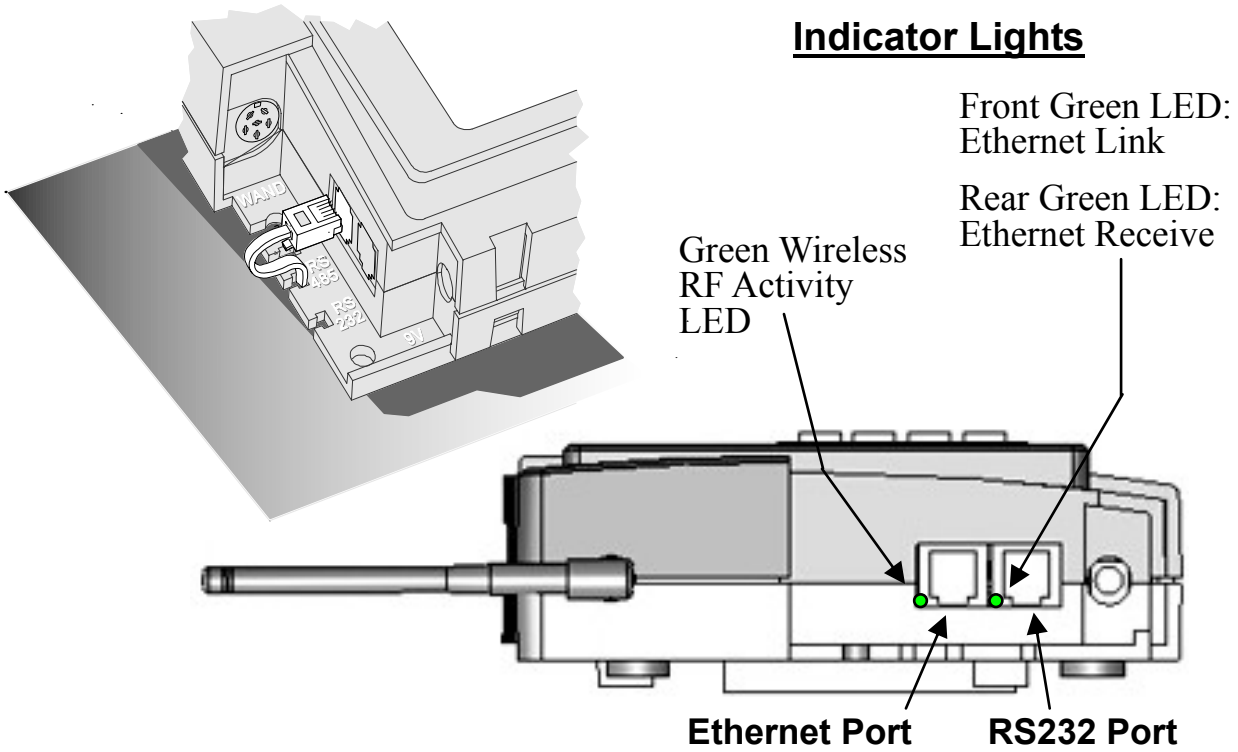
Two Proximity Readers are available on the DC7000. The first Proximity Reader uses 125kHz, Read Only, ISO Proximity Card, 64 Bit Encoding (Manchester). Serial Output Data String contains a 9 Bit Header, 40 Bits of Data, 14 Parity Bits and 1 Stop Bit.

The second reader is a HID Reader that uses HID Badges:
125kHz, Read Only, H10301 (Std. 26 Bit), Facility Code 101.
Note: the reader is not restricted to 26 Bit badges

4. Ports and Connections

Ethernet Port

The Ethernet port is located on the lower left corner of the terminal. It is a 10 position 8-pin female port, which will accept a male 10/100BASE-T (RJ-45) modular connector. The terminal has the capability to communicate across an intranet, a WAN or the Internet.



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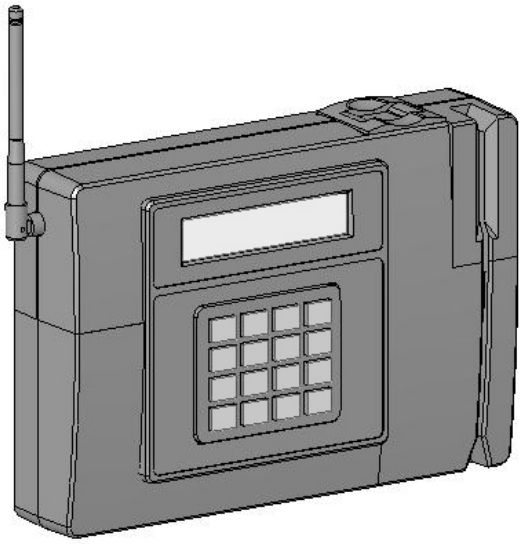
Wireless WiFi Connection

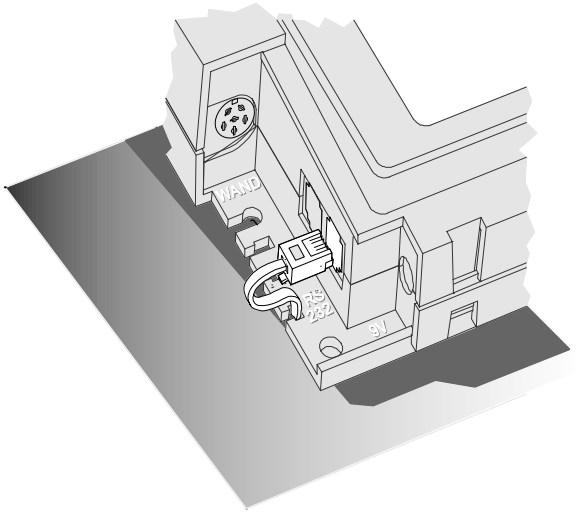
The Wireless Ethernet connection is established via Wireless 802.11b.



RS-232 Serial port

The RS-232 serial port is located on the lower left corner of the terminal. It is a six position 4-pin female port, which will accept a male RJ-11 modular connector.

The DC7000 Terminal can use RS-232 serial communication to connect directly to a host computer. A connection for an IBM® PC or IBM-PC compatible computer is shown on the following page.



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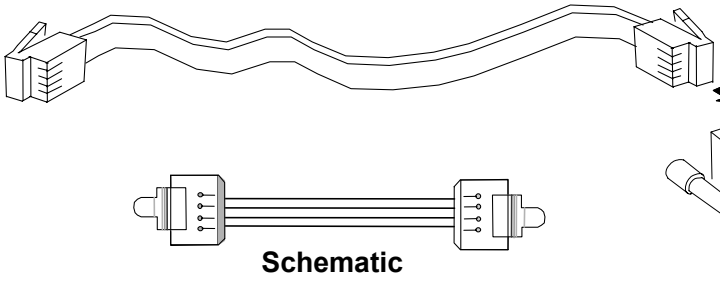
Cabling to Host Computer with DB-25 Port

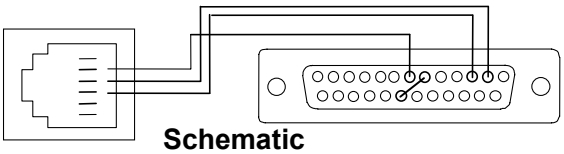
(Use DB-25 RS-232 Host Cable Assy. See pp. 24-25)



DB-25 to RJ-11 Adaptor (Adaptor A)

Schematic

NOTE: Schematic connections are shown from END VIEW (as viewed from the outside of the connectors).



Schematic

Cabling to Host Computer with DB-9 Port

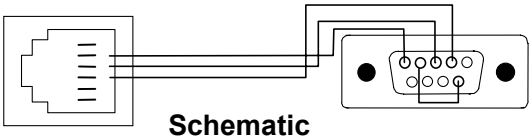
(Use DB-25 RS-232 Host Cable Assy. See pp. 24-25)

DB-9 to RJ-11 Adaptor (Adaptor A)

"Standard" Modular Cable

Schematic

NOTE: Schematic connections are shown from END VIEW (as viewed from the outside of the connectors).



Schematic

See Page 24 for USB to RS-232 Adaptor.

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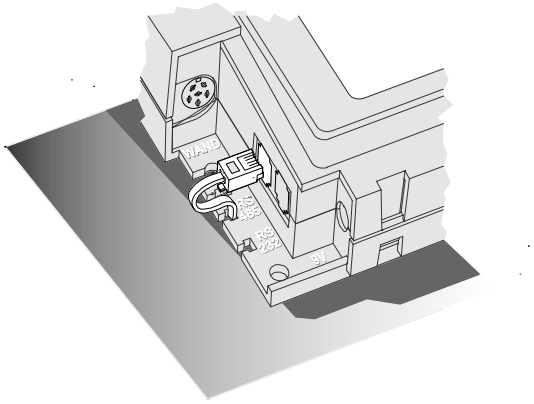
Local Area Network: RS-485 Serial Port

The RS-485 serial port is located on the lower left corner of the terminal. It is a six position 6-pin female port with the outer 2 pins to Ground. It will accept a male RJ-11 modular connector.



The terminal can use RS-485 2-wire serial communication, allowing up to 32 terminals to be connected to one host port. An RS-232 port on the host is typically used in conjunction with an RS-232/RS-485 converter to complete the connection.

Through software, the host can communicate with individual terminals even though they are wired in parallel. RS-485 communication uses a differential bus, which provides good protection from interference over long runs of up to 4000 feet.

NOTE: When wiring a network, always follow the electric wiring codes in your area. Typically, a Teflon coated wire is required for wiring through the ceiling. The “Daisy Chain” cabling between junction boxes shown on the opposite page is a Teflon jacketed cable.

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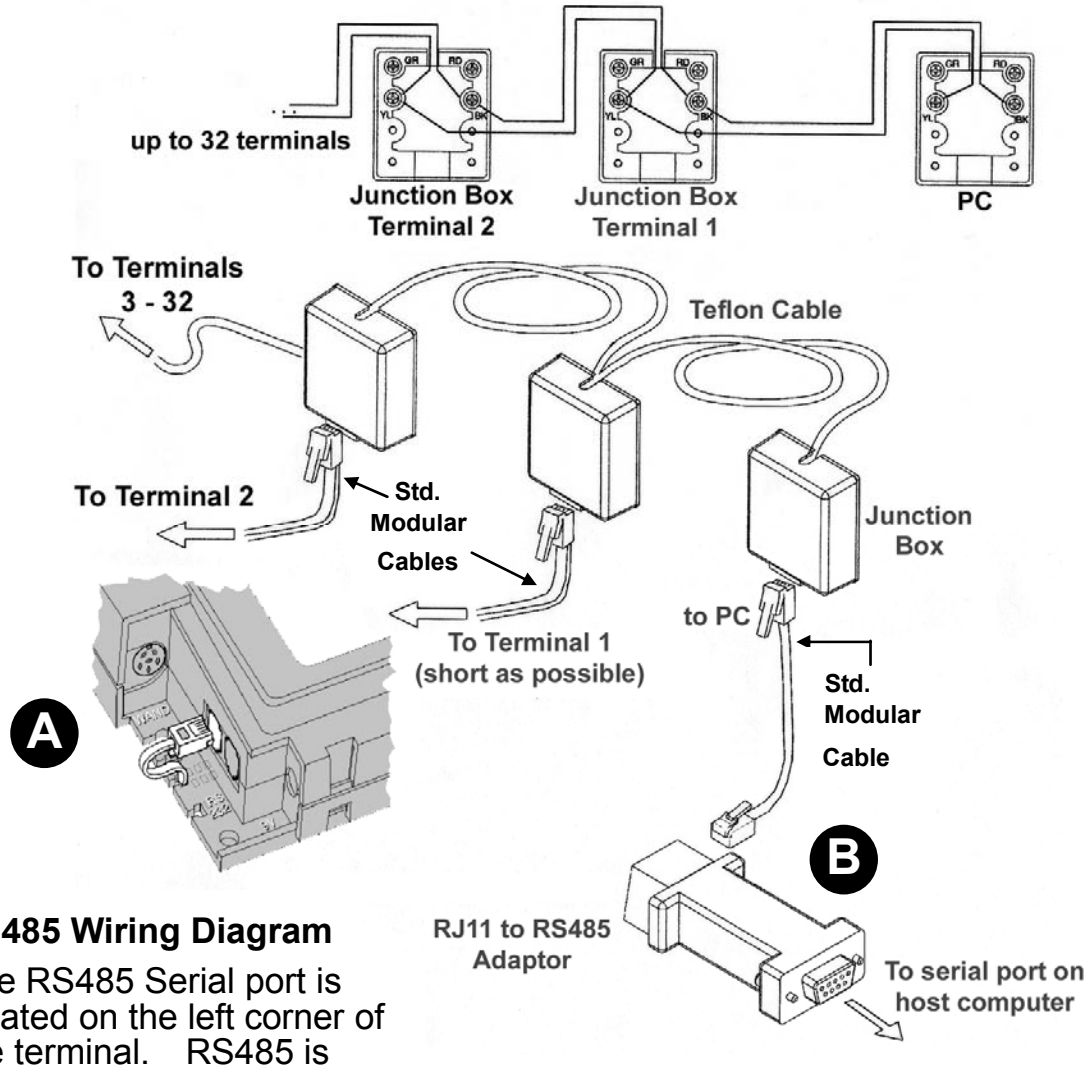
RS-485 Serial Cables

Junction Box "Daisy Chain" Wiring Diagram



RS485 Wiring Diagram

The RS485 Serial port is located on the left corner of the terminal. RS485 is imprinted on the terminal casing. **A**

RS485 communication allows up to 32 terminals to be connected to one serial port. An RS232 port on the host PC is used with an RS232/RS485 converter to complete the connection. **B**

RS485 provides good protection from interference over long runs up to 4000 ft.

Note: When wiring a network, always follow the electric wiring codes in your area. Typically, a Teflon coated wire is required for wiring through a ceiling. The junction box to junction box wire shown is a teflon jacketed cable.

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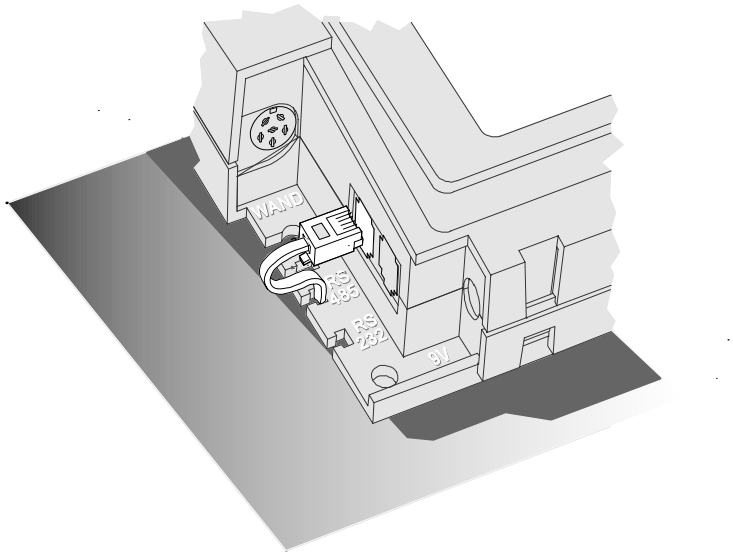
Modem Port

The port depicted may have either an RS-485, a Modem, or an Ethernet Communication Device. Terminals, which are equipped with a Modem port, will not have an Ethernet or RS-485 port. The Modem Port is a 6 position 4-pin female port, which will accept a male RJ-11 modular connector.



The internal modem (modulator/demodulator) converts electronic data into tones, which are then transmitted over phone lines.

Warning: Connecting to a digital phone system will damage the modem and void the warranty.

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Modem Cables

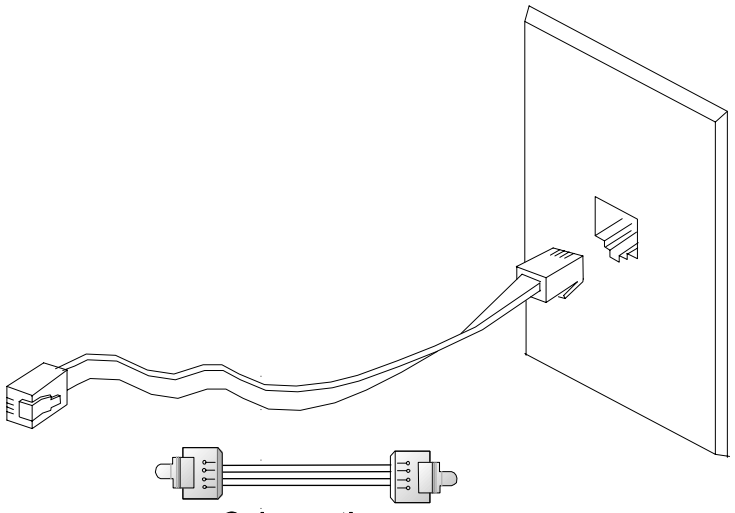
Caution – To reduce the risk of fire, use only 26 AWG or larger telecommunication line cord.

The cabling for modem operation is typically very simple. The modular connection uses the two inner wires of the RJ-11 jack for “tip” and “ring.”

Connect one end of the cable to the terminal and plug the other end into your RJ-11 type modular telephone wall jack. The RJ-11 wall jack should be of the analog telephone type and not a digital network jack.

Warning: Connecting to a digital phone system will damage the modem and void the warranty.

If a modular wall jack is not available, obtain an adaptor from your local telephone company.



Schematic

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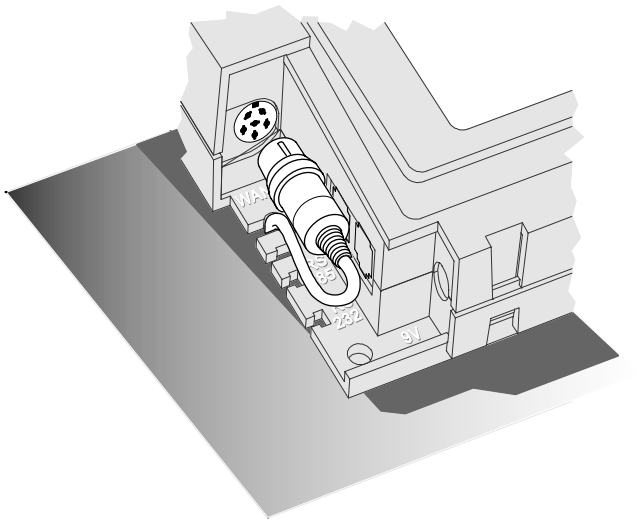
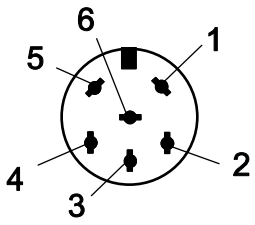
Wand Port

The Wand port is located on the left side of the terminal. It is a 6-pin DIN port that accepts a circular DIN connector.



The Wand, when connected, uses only 3 of the 6 pins available on the DIN connection. If a Barcode Gun (non-contact reader) is used, the center pin supplies additional power. The terminal uses 2 of the remaining pins as logic lines for external controls. See pin-out and function table below:

Pin	Function
1	+5 Volts
2	Signal Control Logic Line (Digital IO #0 - Output Only)
3	Barcode Wand Receive Data
4	Ground
5	Access Logic Line (Digital IO #1 - Output Only)
6	12 Volt Unregulated (Maximum current draw 220 mA with 3A Transformer Only)



END VIEW
6-pin DIN jack

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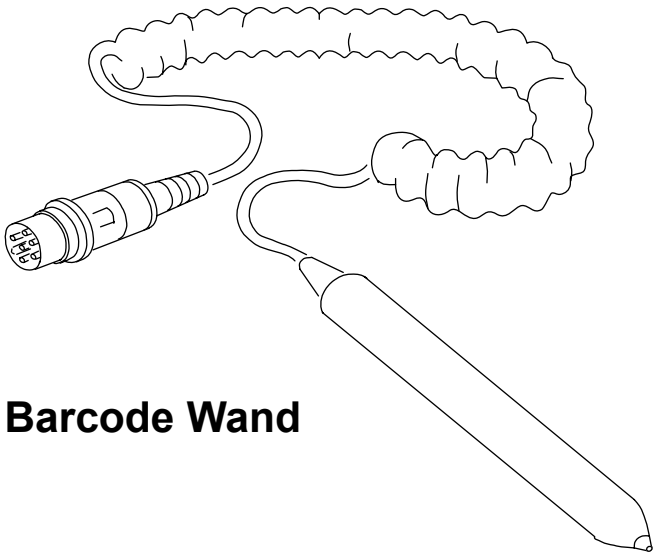
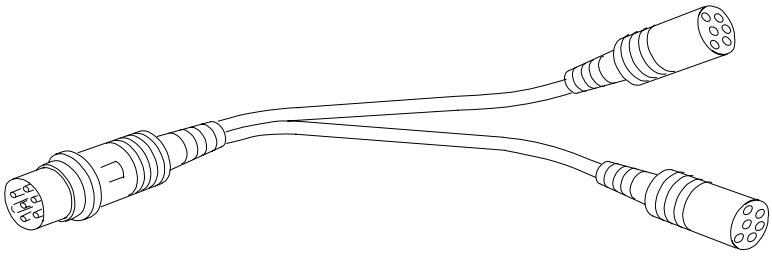
Wand and Y-Cable

Disconnect power to the terminal before connecting the Barcode Wand. The wand is capable of reading bar code stripes by passing it directly over the label. Check the software manual to identify the codes your terminal will read.



Barcode Wand

The Y-cable shown below allows for connection of both a wand and other external devices. The single end of the cable is plugged into the terminal. A wand can be connected to one split and another device to the other. See appendix for External Relay Box part number.



Y-cable (splitter)

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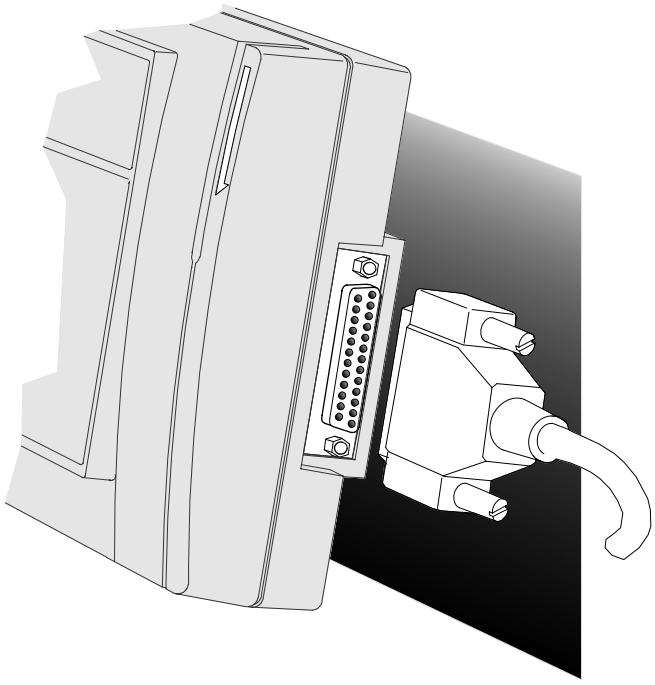
Parallel Port

The parallel port is located on the back right of the DC7000 Terminal. It is a 25 pin female port, which will accept a 25-pin male connector.



This type of parallel port is typically used on IBM® PC or IBM-PC compatible computers. The DC7000 terminal provides strain relief if the connector is locked in by the securing screws. Securing the parallel cable to the wall or mounting surface can obtain additional strain relief.

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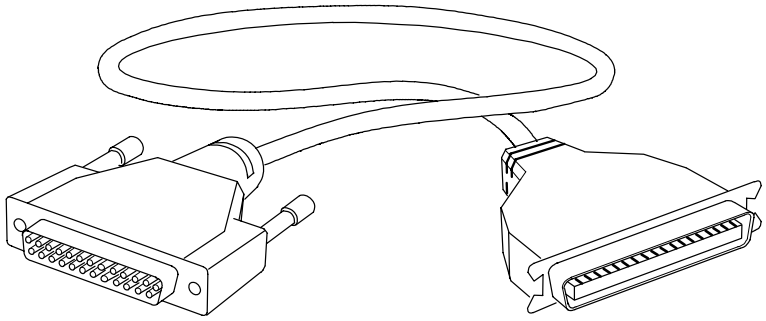
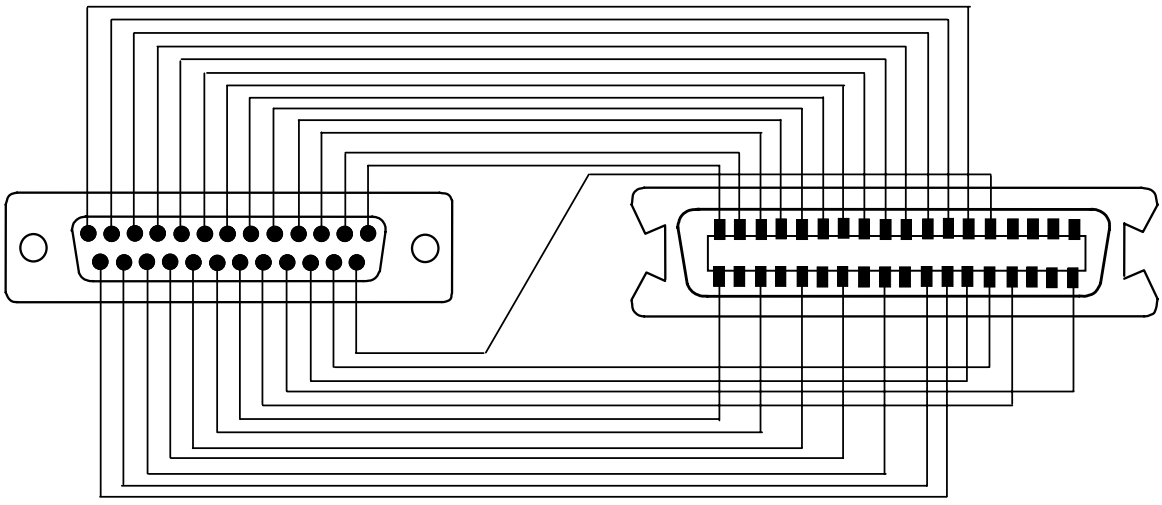
Parallel Cable

The parallel port is used for additional digital I/O or for printing. A standard parallel print cable is used with a simple ASCII parallel printer. Shown below is a parallel interface cable. Since this is the same cable that is used to connect an IBM-PC or compatible to a printer, it will likely be available from most computer dealers off-the-shelf. One end is a male DB-25 connector; the other end is a 36-pin Centronics-type connector to match the parallel port on the printer.



Parallel Cable



Schematic

Note: Schematic connections are shown from END VIEW. (As viewed from the outside of the connectors.)

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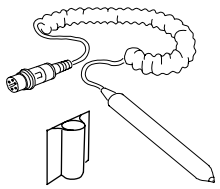
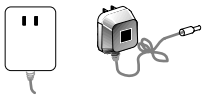
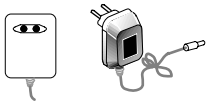
5. CompanionProducts

Readers

Description / Illustration	Part Number
Barcode Wand and Holder 	74-0106-002

Power Supplies

Description/Illustration	Part Number
120VAC to 9VAC, 1A Power Supply 	56-0113-000
120/240VAC to 12VAC, 3A Power Supply 	56-0128-000
(Required for Terminals with Fingerprint Reader, Modem or Wireless Communication)	
Note: Comes with Std. 2-Blade US Plug	75-0166-000
<u>Optional Available Adaptors</u>	
Continental Europe	75-0167-000
U.K. / Ireland	75-0168-000
Australia / New Zealand	75-0169-000
S.Africa / India	75-0170-000

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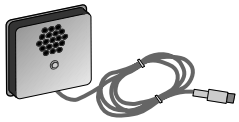
External Relay Box, External Buzzer

External Relay Box	120 V	01-0121-000
External Buzzer 		01-0122-000

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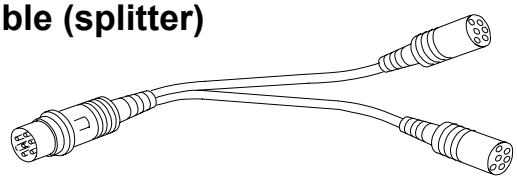
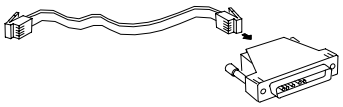
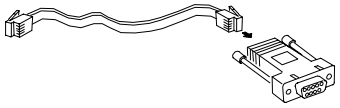
Description/Illustration	Part Number
"Standard" Modular Cable length - 7 feet - 50 feet	 72-0146-000 72-0146-004
Y-Cable (splitter) 	72-0159-000
DB-25 RS-232 Host Cable Assembly Includes DB-25 Female (RS-232/host) to RJ-11 Female adaptor and "Standard" Modular Cable.  length - 7 feet - 50 feet	 25-0116-000 25-0116-007
DB-9 RS-232 Host Cable Assembly Includes DB-9 (RS-232/host) to RJ-11 female adaptor and "Standard" Modular Cable.  length - 7 feet - 50 feet	 25-0116-004 25-0116-008
9 Pin RS-232 to USB Adaptor 	63-0181-001

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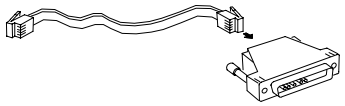
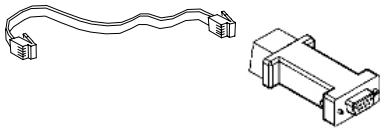
Description / Illustration	Part Number
Modem Adaptor Cable Assembly Includes DB-25 Male (modem) to RJ-11 male adaptor and “Standard” Modular Cable.  length - 7 feet	25-0123-000
Teflon Cable (available by the foot)	55-0124-000
Junction Box	63-0169-000
RS-232 to RS-485 Converter Assembly Includes RS-232 to RS-485 converter with DB-9 / RJ-11 Connectors and “Standard” Modular Cable. length - 7 feet 	25-0134-001
40 Pocket Badge Rack (Plastic) (8¼" wide x 22 5/8” high)	81-0117-000
(2) 12 Pocket Badge Racks (Plastic) (3 7/8" wide x 14" high)	81-0116-003
40 Pocket Badge Rack (Metal) (4 1/2" wide x 32" high)	81-0113-000

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6. Appendix

Units with Acroprint Data Collection Firmware

Acroprint Data Collection Terminal Setup Instructions

Configuring procedure for entering the DATE & TIME:

Swipe the Configuration Badge 000000000
(This badge is provided with each terminal)

Select option 1 for DATE <Press ENTER>

Select the Day, Month, Year DDMMYYYY <Press ENTER>

Select the Time HH:MM <Press ENTER>
(Time is entered in military time, 2:00 pm = 14:00)

Configuring procedure for selecting PORTS:

Swipe the Configuration Badge 000000000
(This badge is provided with each terminal.)

Select option 2 for Ports <press ENTER>

Select option 0 for RS232 <press ENTER>

Select the baud rate 0 for 1200, 1 for 2400, 2 for 4800, 3 for 9600 and 4 for 19,200 baud. <press ENTER>

(For modem terminal only)
Select option 1 for Modem <press ENTER>

Select the Modem baud. <press ENTER>

Select the Answer Window HHMMHHMM for starting and ending times

< press ENTER> (time is in military format, Example: Clock will not answer during business hours and only answer between the hours of 8:00 pm and 6:00 am, then select 20000600.)

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(For RS485 terminals only)

Select option 1 for RS485 <press ENTER>

Select the baud rate 0 for 1200, 1 for 2400, 2 for 4800, 3 for 9600 and 4 for 19,200 baud. <press ENTER>

(For Ethernet terminals only)

Select option 2 for Ethernet <press ENTER>

Select the baud rate option 3 for 9600 baud <press ENTER>
(Leave this as the default for Ethernet.)

Select the TCPIP address <press ENTER>
(Your network administrator will have this information.)

Select the GATEWAY address <press ENTER>
(Your network administrator will have this information.)

Select the PORT VALUE <press ENTER>
(Default number 10001. Select the save value in the ATR9800 software.)

Select the NETMASK PART BITS NUMBER <press ENTER>
(*Your network administrator will obtain this information*. The Default Subnet Mask TCPIP number contains four groups of numbers separated by“.”. To determine the NETMASK VALUE obtain your default Subnet IP number from the Network administrator XXX.125.125.125 for your server Default Subnet, convert **each 125** (your numbers will be different) to binary and count the number of zero’s in the binary number and enter this number. 125 = 01111101 in binary. Each 125 has two zeros, therefore the Netmask bits number is set to 6.

Select the TERMINAL TRANSACTION PRINTER TYPE <press ENTER>
(default is parallel port)

Select TRANSACTION TIME OUT <press ENTER>
(This controls how long the terminal will restrict between badge swipes. Example: You want to keep your employees off the terminal for at least 30 minutes for lunch, then set Transaction Time out to 30.)

Select TERMINAL ID <press ENTER>
(default is 1, select the ID for terminal, each terminal MUST have a unique ID)

The terminal MUST be powered down and back up to accept the new TCPIP information.

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Configuring procedure for selecting the READERS:

Swipe the Configuration Badge 000000000
(This badge is provided with each terminal.)

Select option 3 to ACTIVATE READERS <press ENTER>.

(Select any combination 1234 to activate the readers. 1 for Internal Barcode, 2 for External Barcode, 3 for Internal Magnetic Stripe and 4 for Internal Proximity Reader)

Note, if you turned OFF all readers you will be unable to read the configuration badge. The following procedure will allow you to re-enable the readers. Press the IN, then the OUT and then the ENTER key within 1 second. The terminal will go into a testing mode. Press the Clear key followed by Press the IN, then the OUT and then the ENTER key within 1 second or before the time is displayed.

Fingerprint Reader (for units equipped with Fingerprint Reader):

Enabling Fingerprint Reader

1. Swipe the configuration badge
2. Select option 2 for CONFIG <press ENTER>
3. Press enter until you see BIOMETRIC READERS
4. Select 0 for NONE, 1 for VFLEX, 2 for VSMART, 3 for VPASS, 4 for MV-LITE (internal fingerprint reader)
5. Press ENTER until Date and Time appear

Entering Fingerprints

1. Swipe the supervisor badge
2. Select 1 for FINGERPRINT
3. Select 0 to ADD, 1 to DELETE or 2 to DELETE ALL

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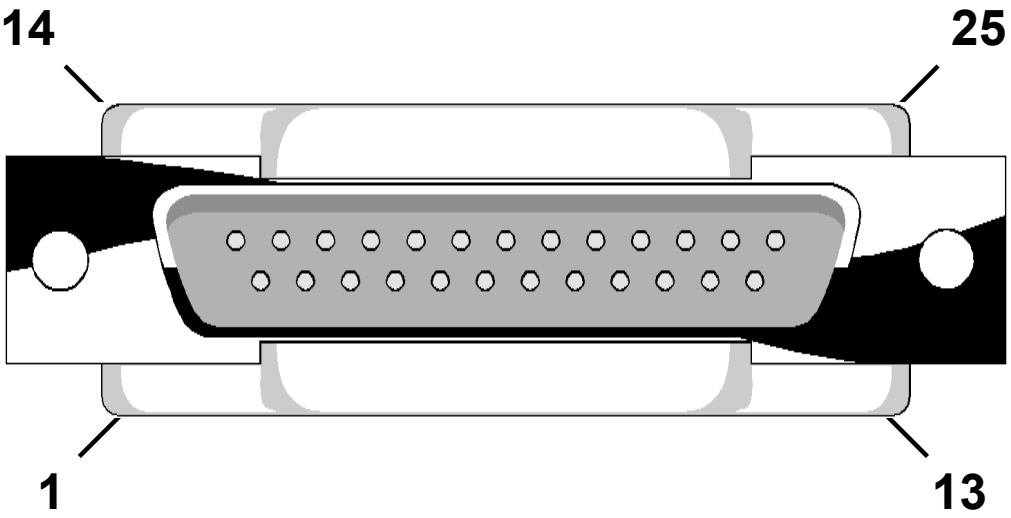
Electrical Connections



Parallel Port Connector on DC7000

	Digital IO Mode
1	Digital IO #7
2	Digital IO #8
3	Digital IO #9
4	Digital IO #10
5	Digital IO #11
6	Digital IO #12
7	Digital IO #13
8	Digital IO #14
9	Digital IO #15
10	N/A
11	Digital IO #2
12	Digital IO #3
13	Digital IO #4
14	N/A
15	Digital IO #5
16	Digital IO #6
17-25	Ground

	Printer Mode
1	Strobe
2	Printer Data 0
3	Printer Data 1
4	Printer Data 2
5	Printer Data 3
6	Printer Data 4
7	Printer Data 5
8	Printer Data 6
9	Printer Data 7
10	/ACK
11	Busy
12	PE
13	Slct
14	/Auto Feed
15	/Error
16	/Init
17	/Slct
18-25	Ground

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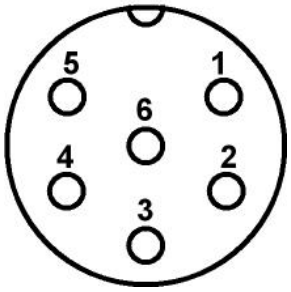
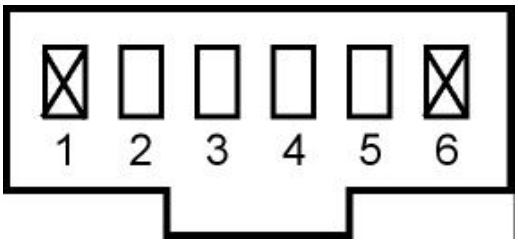


DC7000 Wand Connector Socket

1 +5 Volts
2 Signal Control Logic Line (Digital IO #0 - Output Only)
3 Barcode Wand Receive Date
4 Ground
5 Access Logic Line (Digital IO #1 - Output Only)
6 +12 Volts Unregulated (Max Current Draw 220mA with 3A Transformer Only)



DC7000 RS232 Connector

1 Not Used
2 CTS
3 Transmit Data (from DC7000)
4 Receive Data (to DC7000)
5 Ground
6 Not Used

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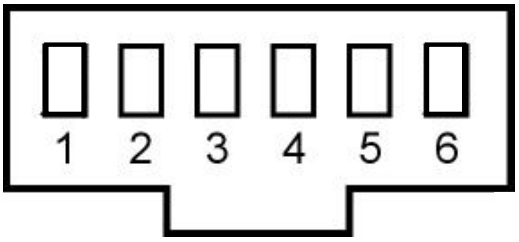
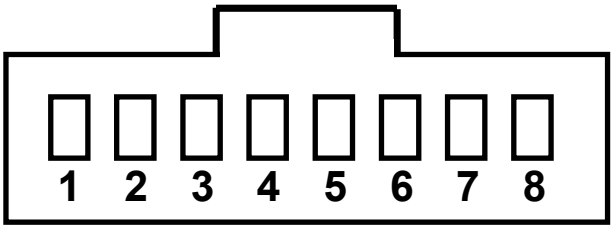


DC7000 RS485 / Modem Connector

Modem	RS485
1 Not Used	1 GND
2 N/A	2 N/A
3 TIP	3 Data (-)
4 RING	4 Data (+)
5 N/A	5 N/A
6 Not Used	6 GND



DC7000 Ethernet Connector

1 Data (TX +)
2 Data (TX -)
3 Data (RX +)
4 Ground (-)
5 Ground (-)
6 Data (RX -)
7 Power (+)
8 Power (+)

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Specifications

IO Points 0–1

Output

High:	4.0 milliamps out of MAX,	V out = 4.2 Volts MIN
Low:	4.0 milliamps in MAX,	V out = 0.4 Volts MAX

Input:

Not Applicable

IO Points 2–15

Output

High:	1.6 milliamps out of MAX,	V out = 2.4 Volts MIN
Low:	2.0 milliamps in MAX,	V out = 0.4 Volts MAX

Input:

Input Voltage Range: 0–5 Volts

High:	2.2 Volts MIN
Low:	0.8 volts MAX

NOTE: If a barcode wand is used, the wand's electric current must be included in your total current calculation.

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